

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>ST0002</b>	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
<b>Sutter Maintenance Yard East Levee Sutter Bypass</b>	<b>M *</b>	<b>21.68</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.32		0.32	1.48%				
Encroachments						0.01		
Animal Control	0.03	0.01	0.07	0.32%				
Slope Stability	0.03		0.03	0.14%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.03		0.03	0.14%				
DWR UCIP Field Study					0.11	0.03		
<i>LMA Totals:</i>	0.41	0.01	0.45	2.08% *	0.11	0.04	0.00	0.00
<b>Unit No. 01 Sutter Bypass Levee LB</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
<b>ST0002</b>	<b>M *</b>	<b>21.68</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.32		0.32	1.48%				
Encroachments						0.01		
Animal Control	0.03	0.01	0.07	0.32%				
Slope Stability	0.03		0.03	0.14%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.03		0.03	0.14%				
DWR UCIP Field Study					0.11	0.03		
<i>Unit Totals:</i>	0.41	0.01	0.45	2.08% *	0.11	0.04	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sutter Bypass**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

\* Overall LMA Threshold Percent is less than  
10.00%; however, U Rated Miles are present,  
so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee			Left	21.68
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	3/23/2016 - 3/23/2016		9/23/2016 - 9/30/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Steve Beckley Sutter Maintenance Yard			

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start		Rating **	A	Issue No.	<b>4</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_ST0002_01_s _ 2013_4				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>5</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_ST0002_01_s _ 2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	<b>6</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_ST0002_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The LMA has completed flood flight training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	0.01	Rating **	M	Issue No.	27
LM End	0.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.151117 °	39.147405 °
				-121.831953 °	-121.828543 °
DWR ID	DWR_ST0002_01_f_2016_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0002\_450\_27\_20161003\_00044.jpg



View of the annual grass blocking visibility.

LM Start	0.32	Rating **	M	Issue No.	41
LM End	0.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147463 °	39.147463 °
				-121.828716 °	-121.828716 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50261 DS_ID:16859 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 10/10/2016 Unable to locate.4/18/2016 Unable to locate.5/7/2015 Could not locate a marker for this crossing.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. Unable to locate.10/8/2012 Unable to locate any indicator of crossing. More research may be necessary. FIELD_STRUCT_DESC: 3-inch gas line along the landside (LS) toe. (Permit No. 4795, 1965 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/11/2016 1:49:47 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	1.12	Rating **	M	Issue No.	42
LM End	1.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50265 DS_ID:16862 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - afreitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. Replaced under (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 10/11/2016 1:56:34 PM					

LM Start	<b>1.12</b>	Rating **	M	Issue No.	<b>42 (cont)</b>
LM End	<b>1.12</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50265\_64805.jpg



Pump on metal pier on WS slope.

Photo 2 of 2 : UCIP\_FA\_2016\_50265\_64804.jpg



24-inch CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard East Levee Sutter Bypass

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	5.20	Rating **	C	Issue No.	25
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.103313 °	39.103313 °
				-121.758813 °	-121.758813 °
DWR ID	DWR_ST0002_01_s _ 2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

No Photos

LM Start	6.60	Rating **	C	Issue No.	31
LM End	6.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.084236 °	39.084236 °
				-121.749914 °	-121.749914 °
DWR ID	DWR_ST0002_01_s _ 2016_31				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen dead tree on waterside levee slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	7.47	Rating **	M	Issue No.	43
LM End	7.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.072292 °	39.072292 °
				-121.744907 °	-121.744907 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50287  
DS\_ID:19985  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing.  
FIELD\_STRUCT\_DESC: Gas-line crosses levee at an unknown depth below the crown. Carsonite sign located on the waterside (WS) shoulder and at landside (LS) toe across toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012.  
FS Date: 10/11/2016 2:50:06 PM

LM Start	<b>7.47</b>	Rating **	M	Issue No.	<b>43 (cont)</b>
LM End	<b>7.47</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50287\_65213.jpg



Gasline marker on WS shoulder.

Photo 2 of 2 : UCIP\_FA\_2016\_50287\_65212.jpg



Gasline marker on LS toe east of ditch.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

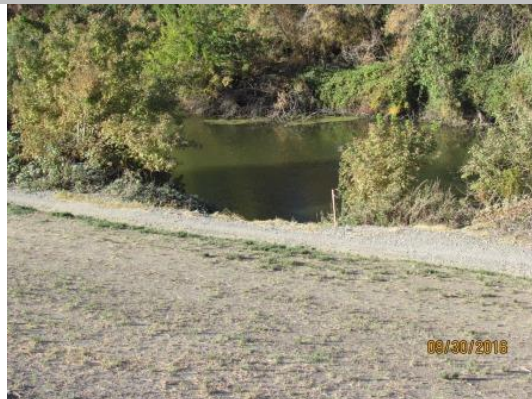
**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	7.83	Rating **	A/W	Issue No.	34
LM End	7.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.067299 °	39.067299 °
				-121.742851 °	-121.742851 °
DWR ID	DWR_ST0002_01_f_2016_34				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0002\_450\_34\_20161003\_00047.jpg



View of the erosion along the waterside toe.

LM Start	8.14	Rating **	M	Issue No.	44
LM End	8.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.062976 °	39.062976 °
				-121.741027 °	-121.741027 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50288 DS_ID:19984 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No permit or purpose identified for this crossing. FIELD_STRUCT_DESC: 2.5-inch steel pipe bored under the levee at an unknown depth below the crown. Pipe has locked cap on the landside (LS) toe. Steel I-beam stream crossing on the LS toe mark location of pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012. FS Date: 10/11/2016 2:51:00 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_50288\_65215.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard East Levee Sutter Bypass



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	9.66	Rating **	C	Issue No.	32
LM End	9.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.042003 °	39.042003 °
				-121.732308 °	-121.732308 °
DWR ID	DWR_ST0002_01_s_2016_32				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen Dead Tree on Waterside slope.					

No Photos

LM Start	10.28	Rating **	U	Issue No.	45
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50290 DS_ID:16884 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoudler is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 1 of 3. 4.5-inch steel natural gas pipe lines through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 10/11/2016 2:56:22 PM					

Photo 1 of 2 : UCIP\_FA\_2016\_50290\_65217.jpg



Gasline markers on LS toe .

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.28	Rating **	U	Issue No.	45 (cont)
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:50290  
DS\_ID:16884  
EP\_NO: 14455  
Repair Type: Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)  
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoudler is broken and should be replaced. (DWR Sutter Yard - afreitag)  
FIELD\_STRUCT\_DESC: 1 of 3. 4.5-inch steel natural gas pipe lines through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. (Permit No. 14455, 1986 - Depco, Inc.)  
FS Date: 10/11/2016 2:56:22 PM

Photo 2 of 2 : UCIP\_FA\_2016\_50290\_65216.jpg



Gasline markers on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.28	Rating **	U	Issue No.	46
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50291  
DS\_ID:16899  
EP\_NO: 14455  
Repair Type: Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)  
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)  
FIELD\_STRUCT\_DESC: 2 of 3. 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.)  
FS Date: 10/11/2016 3:00:04 PM

LM Start	<b>10.28</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>10.28</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50291\_65219.jpg



Gasline markers on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50291\_65218.jpg



Gasline markers on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.28	Rating **	U	Issue No.	47
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033517 °	39.033517 °
				-121.728925 °	-121.728925 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50292  
DS\_ID:16900  
EP\_NO: 14455  
Repair Type: Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)  
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)  
FIELD\_STRUCT\_DESC: 3 of 3. 4.5-inch steel natural gas pipelines through the levee , 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.)  
FS Date: 10/11/2016 3:00:24 PM

LM Start	10.28	Rating **	U	Issue No.	47 (cont)
LM End	10.28	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50292\_65224.jpg



Gasline markers on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50292\_65223.jpg



Gasline markers on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.83	Rating **	M	Issue No.	48
LM End	10.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025693 °	39.025693 °
				-121.726895 °	-121.726895 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50299  
DS\_ID:16871  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/10/2016 Abandoned crossing.4/18/2016  
Abandoned crossing but no noticeable issues seen with it.5/7/2015  
Abandoned crossing but no noticeable issues with it.11/12/2014  
Same as last inspection.5/13/2014 Same as last  
inspection.10/30/2013 Same as last inspection.5/22/2013 Same as  
last inspection.10/8/2012 Need to determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 1 of 5.  
4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet  
below the crown. Wood flap gate and concrete headwall on the  
waterside (WS) end. Wooden steps on the landside (LS) slope.  
Concrete steps on the WS end. [Additional Reference(s): DWR Levee  
Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station  
582+19)]  
FS Date: 10/11/2016 3:06:52 PM

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>48 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50299\_65251.jpg



Slide gates on WS shoulder

Photo 2 of 2 : UCIP\_FA\_2016\_50299\_65250.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.83	Rating **	M	Issue No.	49
LM End	10.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025683 °	39.025683 °
				-121.726886 °	-121.726886 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50300  
DS\_ID:16906  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 2 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
FS Date: 10/11/2016 3:08:13 PM

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>49 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50300\_65254.jpg



Slide gates on WS shoulder.

Photo 2 of 2 : UCIP\_FA\_2016\_50300\_65253.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.84	Rating **	M	Issue No.	50
LM End	10.84	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025560 °	39.025560 °
				-121.726846 °	-121.726846 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50305 DS_ID:16872 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticeable issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch drainage pipe through the levee, 2 feet below the crown. Siphon breaker in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. Minimalistic design drawings available. (Permit No. 3165, 1959 - State of California Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/12/2016 7:19:31 AM					

Photo 1 of 1 : UCIP\_FA\_2016\_50305\_65264.jpg



Siphon breaker in 36-inch CMP riser on WS shoulder. Pipe visible at siphon breaker.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.85	Rating **	M	Issue No.	51
LM End	10.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025310 °	39.025310 °
				-121.726770 °	-121.726770 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50306  
DS\_ID:19986  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/9/2012 No permit identified for crossing.  
FIELD\_STRUCT\_DESC: Gas-line crosses levee at an unknown depth below the crown. Carsonite sign on both landside (LS) and waterside (WS) shoulder. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012.  
FS Date: 10/12/2016 7:21:32 AM

LM Start	<b>10.85</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>10.85</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50306\_65266.jpg



Gasline marker on LS shoulder.

Photo 2 of 2 : UCIP\_FA\_2016\_50306\_65265.jpg



Gasline marker on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	10.88	Rating **	M	Issue No.	1
LM End	10.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID	DWR_ST0002_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Small section of the mid levee slope has eroded from wind wave.					
2015: Site is part of the extended inventory, last inspected 2011. [2015					
Site ID: SBP_11-1_L]					

No Photos

LM Start	11.50	Rating **	C	Issue No.	36
LM End	11.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.016206 °	39.016206 °
				-121.724236 °	-121.724236 °
DWR ID	DWR_ST0002_01_f_2016_36				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen Dead Tree on Waterside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard East Levee Sutter Bypass

View of the vehicle erosion along the slope.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	14.71	Rating **	M	Issue No.	37
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_37				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 1 : FA\_2016\_ST0002\_450\_37\_20161003\_00050.jpg



View of the erosion caused by vehicle traffic.

LM Start	14.71	Rating **	M	Issue No.	38
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0002\_450\_38\_20161003\_00051.jpg



View of the rodent holes along the landside slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	14.71	Rating **	M	Issue No.	53
LM End	14.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.979377 °	38.979377 °
				-121.691929 °	-121.691929 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50311  
DS\_ID:16875  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/10/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section.  
FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both waterside (WS) and landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)].  
FS Date: 10/12/2016 7:31:23 AM

LM Start	<b>14.71</b>	Rating **	M	Issue No.	<b>53 (cont)</b>
LM End	<b>14.71</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_50311\_65314.jpg



Pipe on WS slope exposed and crushed below 30-inch steel riser.

Photo 2 of 2 : UCIP\_FA\_2016\_50311\_65313.jpg



Steel riser on LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	17.60	Rating **	M	Issue No.	21
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.949965 °	38.949965 °
				-121.653823 °	-121.653823 °
DWR ID	DWR_ST0002_01_s_2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

LM Start	17.60	Rating **	M	Issue No.	21 (cont)
LM End	17.60	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA\_2016\_ST0002\_450\_21\_20160823\_00002.jpg



View of the vehicle erosion along the waterside slope.

Photo 2 of 2 : FA\_2016\_ST0002\_450\_21\_20160823\_00003.jpg



View of the vehicle erosion along the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	19.18	Rating **	M	Issue No.	54
LM End	19.18	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932423 °	38.932423 °
				-121.635085 °	-121.635085 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50319 DS_ID:16878 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2016 Abandoned crossing. (DWR Suter Yard-afreitag)4/18/2015 Abandoned crossing. No noticeable issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. (Permit No. 3165, 1959 - State of California Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/12/2016 7:40:38 AM					

Photo 1 of 1 : UCIP\_FA\_2016\_50319\_65334.jpg



36-inch CMP riser on WS shoulder.

LM Start	19.86	Rating **	U	Issue No.	39
LM End	19.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.924752 °	38.924752 °
				-121.627068 °	-121.627068 °
DWR ID	DWR_ST0002_01_f_2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA\_2016\_ST0002\_450\_39\_20161003\_00052.jpg



View of a rodent hole with large hammer sitting on top.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	19.86	Rating **	U	Issue No.	39 (cont)	
LM End	19.86	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.924752 °		38.924752 °
				-121.627068 °		-121.627068 °
DWR ID	DWR_ST0002_01_f_2016_39					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : FA\_2016\_ST0002\_450\_39\_20161003\_00054.jpg



Another view of the rodent hole with large hammer hanging in the hole.

LM Start	20.02	Rating **	M	Issue No.	29
LM End	20.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.922678 °	38.922678 °
				-121.625890 °	-121.625890 °
DWR ID	DWR_ST0002_01_f_2015_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0002\_450\_29\_20160823\_00008.jpg



View of the vehicle erosion along the waterside slope.

LM Start	20.18	Rating **	C	Issue No.	33
LM End	20.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.920461 °	38.920461 °
				-121.625193 °	-121.625193 °
DWR ID	DWR_ST0002_01_s_2016_33				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen dead tree on waterside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	09/23/2016 09/30/2016	Tariq Chechi

LM Start	20.34	Rating **	U	Issue No.	10
LM End	20.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.918147 °	38.918147 °
				-121.624545 °	-121.624545 °
DWR ID	DWR_ST0002_01_s_2012_10				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0002\_450\_10\_20160823\_00001.jpg



View of the house next to the toe of the levee.

LM Start	20.43	Rating **	M	Issue No.	40
LM End	20.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.916965 °	38.916965 °
				-121.624048 °	-121.624048 °
DWR ID	DWR_ST0002_01_f_2016_40				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_ST0002\_450\_40\_20161003\_00058.jpg



View of the rodent holes along the landside slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement